Filed: June 01, 2006

TC Art Unit: 3765

Confirmation No.: 3770

STATUS OF THE CLAIMS

(Currently Amended) A method of producing a fibrous

preform, comprising:

needle-penetrable mold plate containing moving а

discontinuous fiber material along a first linear direction in a

plane relative to a needling device that is disposed out of said

planealong a first direction, the needling device including a

needle member:

while moving the needle-penetrable mold plate containing the

discontinuous fiber material along the first direction, relative

to the needling the fiber material by device, passing the needle

member through the fiber material to change a fiber orientation of

least some of the discontinuous fiber material until a at

fiber content percentage predetermined of the needled

discontinuous fiber material is obtained; and

permitting the needle-penetrable mold plate to at least

occasionally move along a second direction within said plane and

generally transverse to the first direction.

2. The method according to claim 1, wherein (Original)

needle-penetrable mold plate containing the

discontinuous fiber material relative to the needling device along

the first direction comprises moving the needle-penetrable mold

plate containing the discontinuous fiber material relative to the

needling device a plurality of times along the first direction.

3. (Currently amended) The method according to claim 1,

further comprising at least occasionally wherein moving the

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needle-penetrable mold plate containing the discontinuous fiber

material along a second direction generally transverse to the

direction comprises occasionally moving the

penetrable mold plate along the second direction while moving the

needle-penetrable mold plate along the first direction.

4. (Original) The method according to claim 1, wherein the

predetermined fiber content percentage is between about 25% to

about 35%.

(Original) The method according to claim 1, wherein the

discontinuous fiber material comprises discontinuous PAN-based

carbon fiber.

(Original) The method according to claim 1, wherein the

discontinuous fiber material comprises discontinuous pitch-based

carbon fiber.

7. (Original) The method according to claim 1, wherein the

discontinuous fiber material comprises discontinuous PAN-based

carbon fiber and discontinuous pitch-based carbon fiber.

(Currently Amended) The method according to claim

7claim 1, wherein at least occasionally moving the needle-

penetrable mold plate containing the discontinuous fiber material

along a second direction generally transverse to the first

direction comprises occasionally mechanically moving the needle-

penetrable mold plate along the second direction.

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9. (Currently Amended) The method according to claim

7claim 1, wherein at least occasionally moving the needle-

penetrable mold plate containing the discontinuous fiber material

along a second direction generally transverse to the first

direction comprises occasionally manually moving the needle-

penetrable mold plate along the second direction.

(Original) The method according to claim 1, wherein the 10.

discontinuous fiber material is provided in a mold cavity defined

in the needle-penetrable mold plate.

(Original) The method according to claim 10, wherein 11.

the mold cavity defined in the needle-penetrable mold plate is

generally circular.

12. The method according to claim 11, wherein (Original)

the needle-penetrable mold plate includes a core positioned at a

central part of the mold cavity so as to define an annular space

into which the discontinuous fiber material is received.

13. (Original) The method according to claim 1, wherein the

needling device is a needle loom.

14. (Original) The method according to claim 13, wherein

the needle loom is a linear needle loom.

(Original) The method according to claim 1, wherein

passing the at least one needle member through the discontinuous

fiber material comprises passing the needle member through

opposing sides of the discontinuous fiber material.

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The method according to claim 15, wherein (Original)

passing the needle member through opposing sides of

discontinuous fiber material comprises using a first needling

device to pass a first needle member through the discontinuous

fiber material from a first side of the needle-penetrable mold

plate and using a second needling device to pass a second needle

member through the discontinuous fiber material from a second side

of the needle-penetrable mold plate opposite to said first side of

the needle-penetrable mold plate.

17. (Original) The method according to claim 16, wherein

the first and second needling devices are both provided in the

same linear needle loom.

18. The method according to claim 2, wherein (Original)

passing the needle member through the discontinuous fiber material

comprises passing the needle member through opposing sides of the

discontinuous fiber material, the method further including

inverting the needle-penetrable mold plate relative to the needle

member between respective movements of the needle-penetrable mold

plate relative to the needling device.

19. (Original) The method according to claim 1, further

including passing the needle member through a part of the needle-

penetrable mold plate.

20. The method according to claim 1, wherein (Original)

moving the needle-penetrable mold plate along the first direction

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includes moving the needle-penetrable mold plate along an upward

angle with respect to the first direction.

(Original) The method according to claim 1, further 21.

comprising carbonizing the discontinuous fiber material after

attaining the predetermined fiber content percentage.

22. (Original) The method according to claim 21, further

comprising densifying the carbonized discontinuous fiber material.

23. (Original) The method according to claim 22, further

comprising heat treating the densified carbonized discontinuous

fiber material.

(Original) The method according to claim 1, wherein the

needle-penetrable mold plate includes a plurality of mold cavities

into which the discontinuous fiber material is received, the

plurality of mold cavities being arranged generally transverse to

the first direction.

25. (Original) The method according to claim 1, wherein the

needle-penetrable mold plate includes a plurality of mold cavities

into which the discontinuous fiber material is received, the

plurality of mold cavities being arranged generally along the

first direction.

(Original) The method according to claim 24, wherein 26.

the needle-penetrable mold plate includes a plurality of mold

cavities into which the discontinuous fiber material is received,

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the plurality of mold cavities additionally being arranged

generally along the first direction.

27. (Currently Amended) A method of producing a fibrous

preform, comprising:

moving needle-penetrable mold plate containing

discontinuous fiber material along a first linear direction in a

plane relative to a needling device that is disposed out of said

planealong a first direction, the needling device including needle

members arranged generally along the first direction;

while moving the needle-penetrable mold plate containing the

discontinuous fiber material along the first direction in said

plane, needling the discontinuous fiber material with the needle

members to change a fiber orientation of at least some of the

discontinuous fiber material, until a predetermined fiber content

percentage of the needled discontinuous fiber material

obtained, the needling being performed to increasing depths into

the discontinuous fiber material as the needle-penetrable mold

plate moves along the first direction; and

allowing the needle-penetrable mold plate containing the

discontinuous fiber material to move along a second direction in

said plane generally transverse to the first direction.

28. (Currently Amended) A method of producing a fibrous

preform, comprising:

moving a needle-penetrable mold plate containing a fiber

material along a first linear direction in a plane relative to a

needling device disposed out of said planealong a first direction,

the needling device including a needle member;

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while moving the needle-penetrable mold plate containing the

fiber material along the first direction relative to the needling

the fiber material by device, passing the needle member through the

fiber material to change a fiber orientation of at least some of

the fiber material until a predetermined fiber content percentage

of the needled fiber material is obtained; and

permitting the needle-penetrable mold plate to at least

occasionally move along a second direction in said plane generally

transverse to the first direction.

29. (Original) The method according to claim 28, wherein

the fiber material is one of a non-woven carbon fabric and a

continuous carbon filament.

30. (New) The method as recited in claim 1, wherein the

needle-penetrable mold plate moves along the second direction at

irregular intervals.

31. The method as recited in claim 27, wherein

the needle-penetrable mold plate moves along the second direction

at irregular intervals.

32. The method as recited in claim 28, wherein

the needle-penetrable mold plate moves along the second direction

at irregular intervals.

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